

A brief information about Solid waste Management, City Corporation Belgaum



Brief Scenario

- Population as on 2001 census : more than five lakhs (Area – 94.00 Sq.km)
- Number of Wards : 58Nos
- Total quantity of MSW generation : 160-180 TPD
- **Method of collection: Primary Collection**
 1. Door to door collection
 2. Provided metallic containers in a designated places in all over the city limits
- **Mode of transportation (Secondary transportation)**
 1. Vehicles like tippers and lorries covered with plastic/tarpaulins
 2. Dumper vehicles
 3. Compactors vehicles
- **Treatment**

Staff Information

- Health Officer : Dr. S. B Potdar

Supervision Area wards (1-29)

Mob: 9448114589

- Environmental Engineer : Udaykumar Talwar

Supervision Area wards (30-58)

Mob : 9986961507

- Chief sanitary Inspector : S. N. Adiyendra

To attend all complaints in general

Mob: 9448947493

- Total Sanitary Inspector : 9
- Total sanitary Mucadam : 26
- No. of Pk's : 290

Staff Information

List of Sanitary inspector with their command areas for supervision

Sl. No.	Ward. No	Name of the SI	Contact No,
1	1,2,3,4	S. P. Tashildar	9943003004
2	5,6,7,8	Anil Borgavi	9632605358
3	9,10,11,12,13,14,15,21	S. R. Chougule	9341112897
4	16,17,18,19	S. P. Tashildar	9943003004
5	20,22,23,24,25	Uttam Ganachari	9448304724
6	26,27,28,29	P.R.Kowadkar	9341100762
7	30,31,33	B.Y. Madiwallar	9711660608
8	32,34	B.G.Pote	9611738795
9	35,36,37,38,39	S.S. Havnoor	9343183523
10	40,41	D.Y Sayyad	9342768500
11	42,43	A. Y, Hegade	9379683670
12	44,55	S.R. Kadam	9341863149
13	46,46,47,48	S.V.Kamble	9945297071
14	49,50,51,54	V.K.Yallurkar	9844232308
15	52,53	V.R. Devarwadi	9972137474
16	56,57,58	M.N. Adiwashi	9844290349
	S.N. Adiyendra	Chief Sanitary Inspector	9448947493

- Total No. of ward : 58
- Total Road length : 769 kms
- Out of 58 wards 43 wards are outsourced and remaining 15 wards are being managed by corporation Pks.
- The 43 ward are divided in to 10 packages which are as follows

Wards given on outsourced			
	Ward No.	Contractors Names	Moblie No.
	1,2,3,4	N.G. Gollar	9448631654
	5,6,7,8	R.G.Masekar	9901520757
	9,10,11,12	D.S.Sakhe	9980860194
	13,14,15,20	Y.B.Gollar	9731046251
	21,22,23,24,25	M.S.Sakhe	9845826066
	30,31,32,33,34	Bharat Sharma	9980705455
	35,36,37,38,39	B.Y.Kamanache	9844592105
	40,41,44,55	R.A.Pawashe	9901593539
	45,46,47,48	M.P.Chougule	9845481312
	49,50,51,54	N.D.Patil	9964547508
Details of wards managed by Corporation Pk			
16,17,18,19,26,27,28,29,42,43,52,53,56,57,58			

Collection of MSW in the City limits



- To avoid dumping of garbage on street corners, open drains etc, corporation has started door to door collection of garbage in corporation limit and it is covered 70%
- In addition to that the corporation also provided metallic bins in the designated places of the city limits.
- To avoid open dumping of garbage on the street corners and other places as per the MSW rules, the City Corporation of Belgaum has procured closed metal containers of size 4.5 Cum and 3.00 Cum.

Segregation of waste

- Segregation was started in the Different areas as a model ward and it will be implemented in all wards



- Segregation process started in bhagyanagar 4th cross



- Buckets was distributed in subhash Chandra nagar for segregation



- Segregation was started in ward no12 (Vadagaon area) health Officer , Environmental Engineer , Sanitary Inspector , And package contractor has participated

Transportation of MSW



Sl. No.	Vehicles Name	No's
1	Dumper Placer	10
2	Container	280
3	Compactor	2
4	Mini trucks	3
5	Rubbish Lorries	2
6	Street sweeping machine	1
7	Jetting Cum Suction machine	1
8	Tractor trailer mounted mini jetter	1
9	Nala cleaning	1
10	Sucker Machine	1
11	Contractors tipper	20
12	Water Tanker	1

MSW Site

- To overcome the problem the Belgaum City Corporation has established the scientific landfill site for treatment and disposal of MSW as per the Supreme Court guidelines
- City Corporation Belgaum has established an integrated municipal solid waste treatment and disposal facility at Sy. No. 19, 40 and 42 of Turamuri village, Belgaum Taluk and District in an area 66 acres
- Further, the City corporation inturn made an agreement with M/s. Ramky Enviro Engineers Ltd., Hyderabad for development and operation of the MSW land fill facility on BOT for a period of 20 years and being operated from July 2009.

Facility provided at landfill site

M/s Ramky Enviro Engineers, Hyderabad has constructed following components:

- Weigh bridge
- Security room
- Electrical panel room
- Canteen
- MSW entrance gate
- Trommel 35 mm
- Toilet block
 - Under Ground reservoir
- Storm water drainage
- Water provision
- Trommel 16 mm
- Electrical works
- Windrow platform
- Fencing at the periphery
- Windrow platform
- Screening machinery
- LTP plant
- Shed on plant , machineries , and storage
- Leach ate treatment plant



Treating with EM culture



Windrow Platform



Fermented MTL Feeding to 35mm Trammel



Screening through 35mm & 16mm Trammels



Semi finished MTL



Feeding Semi finished MTL to Final Screen



Final compost from 4mm screen

Bio Medical Waste Treatment Plant



- City Corporation of Belgaum did not have a separate Bio medical waste (BMW) treatment plant. Bio medical waste was being mixed with MSW
- The CCB, after holding a series of meeting with doctors, agreed to give 4 gunthas of land at Khasabag on lease basis to the “Association of Hospitals and Nursing Homes”. In the year 1999-2000, the Biomedical Waste Treatment plant was established at Khasbag by the “Association of Hospitals and Nursing Homes” entirely at their own cost.
- 240 hospitals and nursing homes, 42 Clinics , 8 dental clinics , 9 pathological labs, 1 government district hospital., 1 government forensic lab have membership in this plant.
- **Collection and transportation of BMW**



Segregation bags

The association has staff of 13 members who are working for the BMW collection, transportation and disposal. The city is divided in to 8 zones for the purpose of collection and secondary storage of BMW from various hospitals. There are 8 people who are collecting the BMW from various hospitals and store it in the secondary storage pints.

The secondary storage is done in big cement box covered with metallic top door which is kept locked. There 5 secondary storage points situated in different parts of cities The association has one vehicle which collects the BMW from the secondary storage point to the incineration site.



Incineration machine

Water Chamber



30 ft chimney

Chlorination Tank

Auto Clave



Needle cutter

Shredder

The yellow bag contains pathological waste (Body parts) and red bag contains infected waste like gauze sanitary pads etc will go to Incinerator for burning And black bag contains plastics & glass and blue bags contains sharp which goes to Disinfectants tank and Shredding.

Implementation of prohibition of Manual Scavenging

As per the direction from the Government for Eradication of Manual Scavenging the City Corporation Belgaum has taken the following steps

- Dry Latrines survey has been conducted
- Public notification has issued in the Local news paper like



Sanyukta Karnataka news paper on: 12-02-2012



Pudhari news paper on: 12-02-2012



For emptying of septic tanks City Corporation Belgaum has procured one Sucker Machine and one Jetting Cum Suction Machine



The City Corporation Belgaum will provide these vehicles to residents for emptying the septic tanks by paying the user charges to this office. To avail this facility please contact

- Chief sanitary Inspector : S. N. Adiyendra Mob: 9448947493
- Help line Number : 0831-20405337

Awareness programmes



- With the help of Rotary club skating Plastic ban rally conducted along with Corporation Mayor, commissioner on 01-09-2011



- Plastic Awareness programme conducted in kalamandir

Segregation of dry waste

- The City Corporation Belgaum has started the collecting dry waste from commercial shops



- Segregation of dry and wet waste was started nearly 1000 shop as a model ward 09-01-2012 from CBT to vanita vidhyalay



- Dry waste segregated at one point
- Amount of Rs. 4000/- was collected through selling of dry waste to retailers for recycle

Plastics segregation from daily received garbage manually at Turmuri plant

MSW Heap before Segregation



MSW Heap after segregation



Plastics segregation manually



Segregated plastics

Detail of Public Toilets

Sl.No.	Name of the ULB	No. of public toilets (in No.s)			
		Residential	Commercial	Slum	Total
1	City Corporation Belgaum	26	14	21	61

Detail of Animal Birth Control Programme

- ABC programme was conducted in the Belgaum City Corporation limit and till today 4391 dogs had been sterilized and vaccinated.

Epidemic Activities

- For controlling diseases like dengue from mosquitoes fogging is done in all wards with 13 fogging machine.
- For effective fogging the ULB has procured for vehicle mountable fogging machine and it is running in two session morning and evening.
- With help of 14 malaria spray pump malaria oil is sprayed regularly in water stagnating